

File -
MoDo31003767
UNCONTROLLED HAZARDOUS WASTE SITE INVESTIGATION

3012 PRELIMINARY ASSESSMENT REPORT

Case #534.912

Abex Corporation
6600 Ridge Avenue
Wellston, Missouri 63133
St. Louis County
(314) 385-6472

(will be in the
out of Bus. Section)

RECEIVED

SEP 4 1984

WASTE
MANAGEMENT PROGRAM

- I. INVESTIGATOR: Viraf Palsetia
Environmental Engineer
Waste Management Unit
St. Louis Regional Office
Missouri Department of Natural Resources
- II. DATE INVESTIGATION INITIATED: August 16, 1984
DATE INVESTIGATION COMPLETED: August 24, 1984
- III. BACKGROUND OF THE INVESTIGATION:

Prior to the site visit, St. Louis Regional Office file information on this site was thoroughly reviewed. The following is a chronological summary of this file review:

On July 31, 1980, EPA, Region VII, received the first notification of hazardous waste activity at this site pursuant to Section 3010 of the Resource Conservation and Recovery Act. The types of hazardous waste activity notified were generation and treatment/storage/disposal of the following wastes:

1. Hazardous waste from non-specific sources: F012
2. Hazardous waste from specific sources: K061
3. Commercial chemical product hazardous waste: P064
4. Non-listed hazardous waste: Ignitable, Corrosive and Toxic

On October 9, 1980, EPA sent the acknowledgement of notification of hazardous waste activity and assigned EPA I.D. number MOD031003767.

On November 17, 1980, EPA received a Part A application for storage in a waste pile, for disposal in a landfill and for treatment in a tank. This application listed the following seven hazardous wastes, their generation rates and how they were being stored, treated and/or disposed:

1. F012: (124 tons/yr) Tank treatment → waste pile → landfill
2. K061: (35 tons/yr) Waste pile → landfill
3. D004: (20 tons/yr) " → "
4. D006: (20 tons/yr) " → "
5. D007: (511 tons/yr) " → "
6. D008: (173,457 tons/yr) Waste pile → landfill
7. D008: (624 tons/yr) Tank treatment → Waste pile → landfill

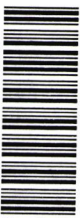
The attachments to this application, however, stated that all of the above seven wastes taken to the landfill area on site would be eventually disposed at an off-site location.

SUPERFUND

SEP 17 1984

SITE LOG

440476



RCRA RECORDS

On January 8, 1981, Ms. Mary Bill of Abex informed EPA that this site did not generate F-012 and K061 wastes as per the amended regulations 40 CFR 261.31 and 40 CFR 261.32 (Federal Register of November 12, 1980, Vol. 45, No. 220). With the amendments, the F012 listed waste was identified as 'quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process'. K061 was identified as 'Emission control dust/sludge from the primary production of steel in electric furnaces'. In this letter, Ms. Bill reported that the heat treatment operations at the plant did not involve any cyanide-containing quench water and that this plant was a secondary steel foundry.

On August 6, 1981, a RCRA compliance inspection was conducted by Missouri Department of Natural Resources personnel. The inspection report was sent to the facility on September 24, 1981.

On May 17, 1982, EPA sent a letter to this facility advising that its Part A permit application was incomplete with respect to process code and appropriate unit of measure. This letter requested a response by June 4, 1982.

On May 27, 1982, EPA sent a letter to this facility regarding two amendments to RCRA pertaining to, 1. Closure and Post closure Assurances and 2. Liability Assurances. This letter required the facility to submit appropriate documentation by July 6, 1982 for the closure and post closure Assurance, and by July 15, 1982 for the liability coverage for sudden accidents.

On September 13, 1982, Mr. A. Walker Bingham, General Attorney for Abex sent a letter to EPA stating that independent analyses performed on the wastes subsequent to filing of the Part A application demonstrated that the wastes were not hazardous. Hence, Mr. Bingham contended that TSD status was not appropriate for this facility. He further advised that the facility was no longer in operation and requested withdrawal of the Part A permit application.

On November 19, 1982, Mr. Bingham petitioned EPA for a response to his earlier letter dated September 13, 1982.

On January 24, 1983, EPA responded to Mr. Bingham's letters and requested the company to submit the following information pursuant to Section 3007 of RCRA:

1. Analytical results for tests performed during 1980.
2. An explanation of why the P064 waste identified in the original notification was not included in the Part A permit application.
3. A detailed description of the current operational status of the facility.

On February 7, 1983, Mr. Charles Borcharding, Director, Environmental Control sent a response to the inquiry from EPA.

IV. IDENTITY OF PERSONS INTERVIEWED FOR THIS REPORT:

1. Mary Bill, Acting Works Manager
Abex Corporation
6600 Ridge Avenue
St. Louis, Missouri 63133
(314) 385-6472

2. John Jercinovic, Maintenance Person
Abex Corporation
6600 Ridge Avenue
St. Louis, Missouri 63133
(314) 385-6472
3. William Fitzgerald
Laclede Gas Company
4118 Shrewsbury
St. Louis, Missouri 63119
(314) 644-6577

V. BRIEF SUMMARY OF THE INFORMATION OBTAINED:

Abex Corporation originally submitted the notification of hazardous waste activity and the Part A permit application based on toxic Extraction Procedure analyses of wastes performed by Laclede Gas Company, 4188 Shrewsbury, St. Louis, Missouri 63119 in 1980. Subsequently, the company claims to have realized that these analyses were inconsistent with data obtained from its plants at other locations and, hence, additional analyses of waste samples were conducted in 1981. The subsequent analyses were performed by Free-Col Laboratories, Cotton Road, Meadville, PA 16335 which demonstrated that the wastes samples were not EP toxic. The company further contends that neither the nature of the plant nor its operations have changed from the time of submittal of the Part A application until the plant closure on March 26, 1982. The company requested EPA, on September 13, 1982 and November 19, 1982, to rescind its Part A permit application for TSD status. On January 24, 1983, EPA asked for the submittal of additional information which the company provided on February 7, 1983. SLRO files do not show any additional correspondence between the facility and EPA after February 7, 1983. However, an internal EPA memo dated February 18, 1983 to Robert Morby from Michael Sanderson states "Based upon our review of the file and a response to our 3007 inquiry, it appears that the facility has not generated any hazardous waste since the effective date of RCRA. Evidently the original analytical results by Laclede Gas Company were in error". The same memo indicates the presence of a sand dump which may need investigation as a possible uncontrolled site. It was stated that what had been placed there prior to RCRA is unknown.

VI. DETAILED ACCOUNT OF THE INVESTIGATION:

On August 21, 1984, a meeting was held in the office at Abex Corporation, 6600 Ridge Avenue, Wellston, Missouri 63133 between Ms. Mary Bill and Messrs. Viraf Palsetia and Kerwin Singleton, both of the Missouri Department of Natural Resources - St. Louis Regional Office. Mr. John Jercinovic, Maintenance Person, was present during a portion of this meeting and subsequently accompanied the investigators on the plant tour including the sand dump area.

The site is located at 6600 Ridge Avenue within the city limits of Wellston in St. Louis County, Missouri. The total plant property consists of 11.5 acres. The sand dump area is 0.5 acres in size. Directions to the site are as follows: From Interstate I-70, take I-170 south. Exit at Page Avenue and go east on Page Avenue. Turn left on Ogden Avenue. Turn left on Ridge Avenue.

The following information was obtained during the meeting with Mary Bill and John Jercinovic:

American Breakshoe Company - American Manganese Steel Division owned this site since 1923. On April 26, 1966, American Breakshoe Company changed its name to Abex Corporation. In 1968, Abex Corporation merged with Illinois Central Industries, Inc. and became a wholly-owned subsidiary of Illinois Central Industries, Inc. The plant operated as a secondary steel foundry (SIC code 3325) from 1923 until its closure on March 26, 1982. The plant operated as a job shop manufacturing steel castings weighing from 0.5 lb up to 10,000 lbs. The processes at the plant included melting scrap steel in two electric arc furnaces, pouring the molten metal in sand molds, shaking out the casting, annealing in three gas-fired annealing furnaces, rough grinding, finish grinding and machining. The plant during normal conditions operated on three shifts a day and five days a week. The plant had employed a maximum of 300 workers. In January 1982, the plant had 212 employees. Currently, with the processes shut down, the plant has five employees involved in shipping out the wooden patterns and the remaining stock of steel castings.

Mary Bill started her employment at this plant in 1950 as a secretary in the sales department and progressed to become Acting Works Manager. Mr. Jercinovic has been employed here for the last 20 years. Both stated that quantities of generation of waste streams originally listed in the Part A permit application were highly exaggerated. They stated that the F012 waste listed in the Part A permit application was the quench tank sludge and its actual generation rate would have been closer to 2.5 cubic yards per week rather than 124 tons/year. The K061 waste listed in the Part A permit application was generated from the DU7 dust collector for the two electric arc furnaces. The D008 waste with a generation rate of 173,457 tons/year specified in the application was the waste sand. The company representatives claim that since the plant utilized a sand reclaimer for recovering the used sand, the waste sand generation could not be as high as specified in the permit application.

The waste sand, waste from air-pollution control devices, and the quench tank sludge waste were either initially stored on the sand dump located at the southwest corner of the plant property and subsequently hauled off-site or were directly placed on hauling trucks for off-site disposal. Ms. Bill stated that all off-site shipments of wastes from this plant were made utilizing trucks from Henry Marnatti, 5037 Parker Avenue, St. Louis, MO 63109. She did not know where the wastes were disposed of by Mr. Marnatti. None of the off-site waste shipments was ever manifested. She mentioned that Mr. Marnatti has recently passed away. Ms. Bill and Mr. Jercinovic estimated that approximately 115 truck loads per year of actual off-site shipments of wastes were handled by Mr. Marnatti. They stated that no landfiling of the waste(s) was done on-site. Ms. Bill mentioned that the maximum height of the sand waste pile had never exceeded two feet at any time during the operations at this site.

Ms. Bill reported no complaints from present or past employees concerning health-related problems attributable to the handling of the wastes at this site.

Upon questioning Ms. Bill as to why the company staff felt that the original waste analyses conducted by the Laclede Gas Company were incorrect, she stated that this lab was inexperienced in hazardous waste testing procedures at that time and had performed "Direct" tests rather than "Leachate" tests. She stated that all samples analyzed by Laclede Gas Company were collected by the personnel from that firm. The sample analyzed by Free-Col Laboratories were collected by Paul Kociscak, Maintenance Supervisor, from Abex Corporation and were shipped to the lab via UPS on April 15, 1981. Ms. Bill did not have an address or phone number to contact Mr. Kociscak and stated that he was employed at Abex until 1982.

The plant tour confirmed the process shutdown. The site visit to the sand dump area in the southwest corner of the plant property revealed that a good vegetative growth has been established on it. This area was wet and no significant accumulation of sand or other wastes was observed. A fine sand layer (less than 2 inch high) was observed in certain patches, especially near the northeast part of the sand dump area. Mr. Jercinovic stated that the sand dump area covers approximately 0.5 acres. The western half of the sand dump area appeared relatively flat while the eastern half drained southward to an unnamed creek. No run-off from this site was noticeable during the site visit.

At the request of Ms. Bill, no pictures were taken during the site visit. When asked if the company would take additional samples from the sand dump area to further substantiate the absence of hazardous wastes, Ms. Bill indicated that the company should not have any problem accommodating the request. However, such sampling would have to be approved by appropriate corporate personnel.

Copies of test analyses by Laclede Gas Company on August 1980 were obtained to update SLRO files. These tests, as well as tests done in October 1980, indicate the presence of hazardous wastes at the site.

Legal Owner: Abex Corporation
6 Landmark Square
P. O. Box 10268
Stamford, Connecticut 06904
(203) 328-3201
Steven S. Conway, Jr., President

Abex Corporation relocated its previous New York headquarters to the above address, effective January 16, 1984. Ms. Bill did not know the anticipated future use of this site.

On August 23, 1984, the investigator contacted William Fitzgerald of Laclede Gas Company by telecon. Mr. Fitzgerald stated that he had collected the samples himself and that the analyses were performed in accordance with the specifications in 40 CFR 261. for EP toxicity analyses. In 1980, the EP toxicity analyses specified in 40 CFR 261 did not require a separate determination of the hexavalent chromium parameter and hence total chromium was measured.

VII. CONCLUSIONS:

This site, in its present condition, does not pose a significant threat to public health or the environment and should be assigned a low priority for further investigation. This conclusion is based upon the following considerations:

1. The amount of waste material in the sand dump area appeared to be minimal.
2. A good growth of vegetation was observed on the sand dump area. No vegetative stress was observed at the site.
3. No landfilling operation was performed at the site per Ms. Bill and Mr. Jercinovic.
4. Due to the conflicting analytical data, it is uncertain at the present time whether the company generated hazardous waste at this site.

VIII. RECOMMENDATIONS:

Further agency action may require sampling of the sand dump area which would aid in determination of the presence or absence of hazardous wastes at this location. At present, it is uncertain whether Abex Corporation generated any hazardous wastes at this site due to conflicting data from two independent laboratories. It should be noted, however, that Abex Corporation may perform this sampling voluntarily if formally requested to do so by MDNR/EPA.

IX. LIST OF ATTACHMENTS TO THIS REPORT:

- Attachment #1: site location map from the St. Louis County street guide
- Attachment #2: topographic map showing location of this site
- Attachment #3: Five (5) Laboratory Analyses Reports dated August 15, 1980 from Laclede Gas Company
- Attachment #4: One (1) Laboratory Analyses Report dated October 24, 1980 from Laclede Gas Company
- Attachment #5: EPA Form 2070-12
- Attachment #6: Site plot plan

X. SIGNATURES:

SUBMITTED BY:

Viraf Palsetia

Viraf Palsetia
Environmental Engineer
St. Louis Regional Office
Missouri Department of Natural Resources

8/29/84

Date

APPROVED BY:

F. Donald Maddox

F. Donald Maddox
Regional Administrator
St. Louis Regional Office
Missouri Department of Natural Resources

8/29/84

Date



Potential Hazardous Waste Site

Preliminary Assessment

Case #534,912

Abex Corporation
6600 Ridge Avenue
Wellston, Missouri 63133
St. Louis, County
(314) 385-6472

SUPERFUND

SEP 17 1984

SITE LOG



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE MO 02 SITE NUMBER D031003767

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Abex Corporation		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 6600 Ridge Avenue				
03 CITY Wellston	04 STATE MO	05 ZIP CODE 63133	06 COUNTY St. Louis County		07 COUNTY CODE 189	08 CONG DIST 01
09 COORDINATES LATITUDE 38 40 38.		LONGITUDE 09 01 75 0.				

10 DIRECTIONS TO SITE (Starting from nearest public road)

From I-70, take I-170 South. Exit at Page Avenue and go east. Turn left on Ogden Avenue. Turn left on Ridge Avenue

III. RESPONSIBLE PARTIES

01 OWNER (If known) Abex Corporation		02 STREET (Business, mailing, residential) 6 Landmark Square (P. O. Box 10268)			
03 CITY Stamford	04 STATE CT	05 ZIP CODE 06904	06 TELEPHONE NUMBER (203) 328-3201		
07 OPERATOR (If known and different from owner) Abex Corporation		08 STREET (Business, mailing, residential) 6600 Ridge Avenue			
09 CITY Wellston	10 STATE MO	11 ZIP CODE 63133	12 TELEPHONE NUMBER (314) 385-6472		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A PRIVATE <input type="checkbox"/> B FEDERAL _____ (Agency name) <input type="checkbox"/> C STATE <input type="checkbox"/> D COUNTY <input type="checkbox"/> E MUNICIPAL <input type="checkbox"/> F OTHER _____ (Specify) <input type="checkbox"/> G UNKNOWN					

14 OWNER OPERATOR NOTIFICATION ON FILE (Check all that apply)

☒ A RCRA 3001 DATE RECEIVED 07/31/80 MONTH DAY YEAR ☐ B UNCONTROLLED WASTE SITE (CERCLA 103(c)) DATE RECEIVED: / / ☐ C NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 08/21/84 MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A EPA <input type="checkbox"/> B EPA CONTRACTOR <input checked="" type="checkbox"/> C STATE <input type="checkbox"/> D OTHER CONTRACTOR <input type="checkbox"/> E LOCAL HEALTH OFFICIAL <input type="checkbox"/> F OTHER _____ (Specify) CONTRACTOR NAME(S): _____			
02 SITE STATUS (Check one) <input type="checkbox"/> A ACTIVE <input checked="" type="checkbox"/> B INACTIVE <input type="checkbox"/> C UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR 1923 ENDING YEAR 1982 <input type="checkbox"/> UNKNOWN			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT KNOWN OR ALLEGED

Possibility for the presence of EP toxic wastes (D004, D006, D007 and D008).

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Potential for run-off from the sand dump area entering waters of the state.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT Mary Bill	02 OF (Agency Organization) Abex Corporation		03 TELEPHONE NUMBER (314) 385-6472	
04 PERSON RESPONSIBLE FOR ASSESSMENT Viraf Palsetia	05 AGENCY MDNR	06 ORGANIZATION DEQ	07 TELEPHONE NUMBER (314) 849-1313	08 DATE 08 / 24 / 84 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☐ D. FIRE EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____
(Acres)

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Spills, runoff, standing liquids, leaking drums)
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ P. ILLEGAL UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

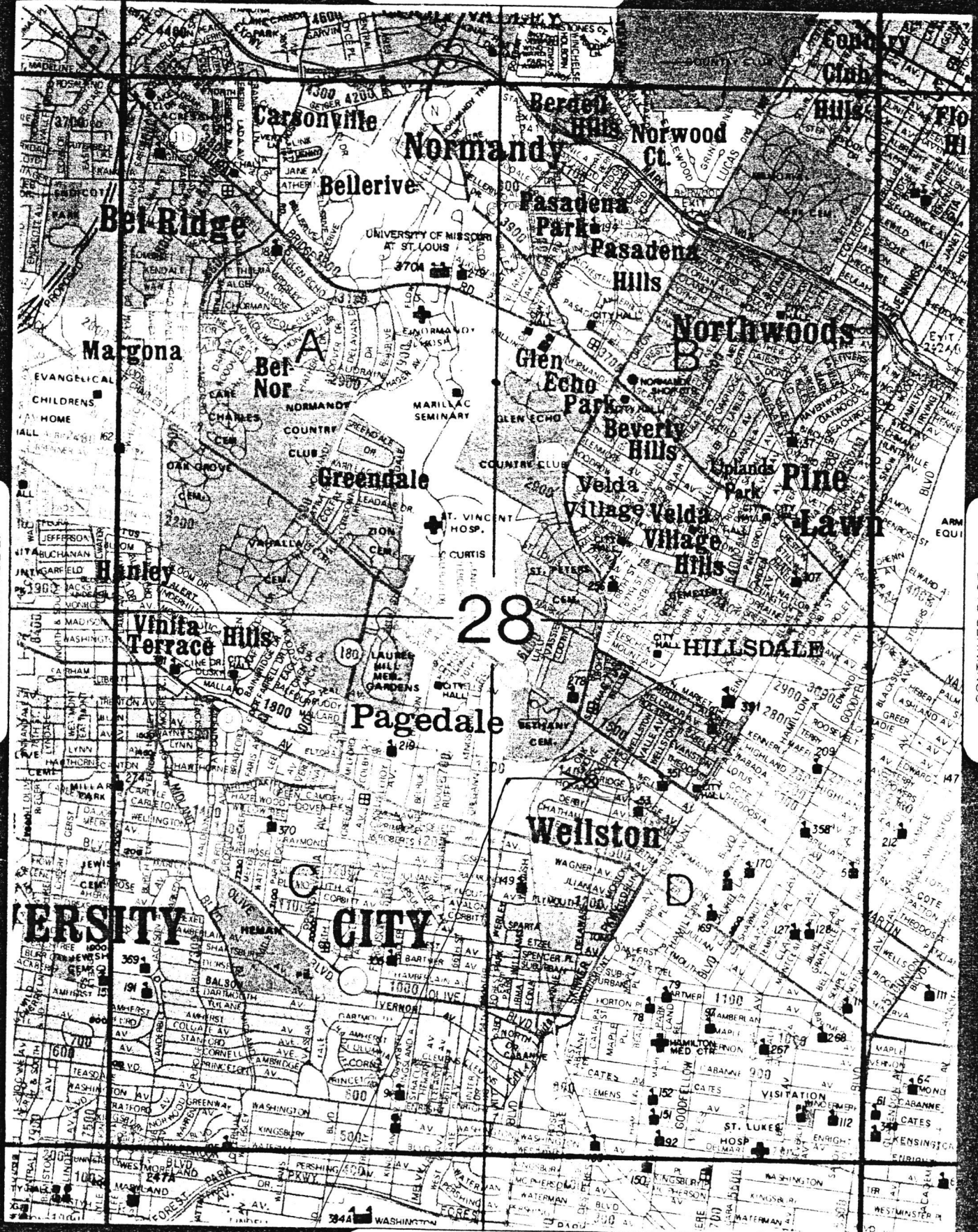
☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)





4.8 MI TO INTERSTATE 44
4786
4785
4784
40'
4783
4782
4781

LACLEDE GAS COMPANY

Laboratory Division

4118 SHREWSBURY
ST. LOUIS, MISSOURI 63119
(314) 644-6577

August 15, 1980

Abex Corp. - Amoco Division
Attn: Ms. Mary E. Bill
6600 Ridge Ave.
St. Louis, MO. 63133

RE: Analysis of a waste sample received on: 7/23/80
Sample from dump pit: brown sample of grindings

*melting bag
dump house*

<u>Tests</u>		<u>TEP analysis</u>
✓ Arsenic	PPM	
✓ Barium	"	
✓ Cadmium	"	
✓ Chromium (Tri)	"	
✓ Chromium (Hex) TOTAL	"	422.0
✓ Copper	"	
✓ Lead	"	
✓ Mercury	"	
✓ Nickel	"	92.0
✓ Selenium	"	
✓ Silver	"	
✓ Zinc	"	
Cyanide	mg/l	
pH	Unit	
Flash point (°F)		
Solids	%	
Manganese	ppm	124,800.
Iron	ppm	14,800.

*less than

Respectfully submitted,

William T. Fitzgerald
William T. Fitzgerald

WTF:eb

cc. *Charlie Berchending
Ron Robbins*

ENCLIDE GAS COMPANY

Laboratory Division

4118 SHREWSBURY
ST. LOUIS, MISSOURI 63119
(314) 644-6577

August 15, 1980

Abex Corp. - Amsco Division
Attn: Ms. Mary E. Bill
6600 Ridge Ave.
St. Louis, MO. 63133

RE: Analysis of a waste sample received on: 7/23/80
Sample from precipitator

<u>Tests</u>		<u>TEP analysis</u>
Arsenic	PPM	
Barium	"	
Cadmium	"	
Chromium (Tri) TOTAL	"	2.8
Chromium (Hex)	"	
Copper	"	
Lead	"	
Mercury	"	
Nickel	"	*0.15.
Selenium	"	
Silver	"	
Zinc	"	
Cyanide	mg/l	
pH	Unit	6.6
Flash point (°F)		87°
Solids (100°C)	%	12.7%
Volatiles (100°C)	%	87.3%
Iron	ppm	113.5
Manganese	ppm	83.0

*less than

Respectfully submitted,


William T. Fitzgerald

WTF:eb

ENGLEDE GAS COMPANY

Laboratory Division

4118 SHREWSBURY
ST. LOUIS, MISSOURI 63119
(314) 644-6577

August 15, 1980

Abex Corp. - Amsco Division
Attn: Ms. Mary E. Bill
6600 Ridge Ave.
St. Louis, MO. 63133

RE: Analysis of a waste sample received on: 7/23/80
Sludge pit.

FED. 5123
↓ SKY WET
COLLECTOR

<u>Tests</u>		<u>TEP analysis</u>
Arsenic	PPM	
Barium	"	
Cadmium	"	
Chromium (Tri)	"	
Chromium (Hex) TOTAL	"	24.0
Copper	"	
Lead	"	
Mercury	"	
Nickel	"	170.0
Selenium	"	
Silver	"	
Zinc	"	
Cyanide	mg/l	
pH	Unit	10.3
Flash point (°F)		
Solids (100°C)	%	74.0
Volatiles (100°C)	%	26.0
Iron	ppm	4727.0
Manganese	ppm	780.0

*less than

Respectfully submitted,

William T. Fitzgerald
William T. Fitzgerald

WTF:eb

MCLEDE GAS COMPANY

Laboratory Division

4118 SHREWSBURY
ST. LOUIS, MISSOURI 63119
(314) 644-6577

August 15, 1980

Abex Corp. - Amsco Division
Attn: Ms. Mary E. Bill
6600 Ridge Ave.
St. Louis, MO. 63133

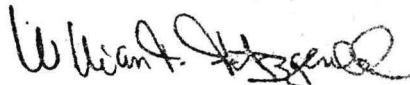
RE: Analysis of a waste sample received on: 7/23/80
Grindings from dust collectors.

HACH SHOP
COLLECTOR

Tests		TEP analysis
Arsenic	PPM	
Barium	"	
Cadmium	"	
Chromium (Tri)	"	
Chromium (Hex) TOTAL	"	4.0
Copper	"	
Lead	"	
Mercury	"	
Nickel	"	327.0
Selenium	"	
Silver	"	
Zinc	"	
Cyanide	mg/l	
pH	Unit	
Flash point (°F)		
Solids	%	
Manganese		18,000.0
Iron		185.0

*less than

Respectfully submitted,


William T. Fitzgerald

WTF:eb

EAGLEDE GAS COMPANY

Laboratory Division

4118 SHREWSBURY
ST. LOUIS, MISSOURI 63119
(314) 644-6577

August 15, 1980

Abex Corp. - Amsco Division
Attn: Ms. Mary E. Bill
6600 Ridge Ave.
St. Louis, MO. 63133

RE: Analysis of a waste sample received on:
7/23/80 - sample from dump pit: black sample of grindings.

metal shop collector

SCRAP SAND

<u>Tests</u>		<u>TEP analysis</u>
Arsenic	PPM	
Barium	"	
Cadmium	"	
Chromium (Tri)	"	
Chromium (Hex) TOTAL	"	4.0
Copper	"	
Lead	"	
Mercury	"	
Nickel	"	203.0
Selenium	"	
Silver	"	
Zinc	"	
Cyanide	mg/l	
pH	Unit	
Flash point (°F)		
Solids	%	
Manganese	ppm	140.0
Iron	ppm	1200.0

*less than

Respectfully submitted,

William T. Fitzgerald
William T. Fitzgerald

WTF:eb

LACLEDE GAS COMPANY

Laboratory Division

4118 SHREWSBURY
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(314) 644-6577

October 24, 1980

Abex Corporation - Amsco Division
Attn: Ms. Mary E. Bill
6600 Ridge Ave.
St. Louis, MO. 63133

RE: Analysis of a waste sample received on: 10/13/80?
Annex dust collector (grinding dust) #1

Tests		TEP analysis	EPA Limits
Arsenic	PPM	35.5	5.0
Barium	"	25.0	100.0
Cadmium	"	6.0	1.0
Chromium (Tri)	"		
Chromium (Hex) TOTAL	"	3000.0	5.0
Copper	"		
Lead	"	34.0	5.0
Mercury	"	0.010	0.2
Nickel	"		
Selenium	"	*0.003	1.0
Silver	"	*0.06	5.0
Zinc	"		
Cyanide	mg/l		
pH	Unit	7.3	
Flash point (°F)			
Solids	%		

Class than

This waste is classified as:

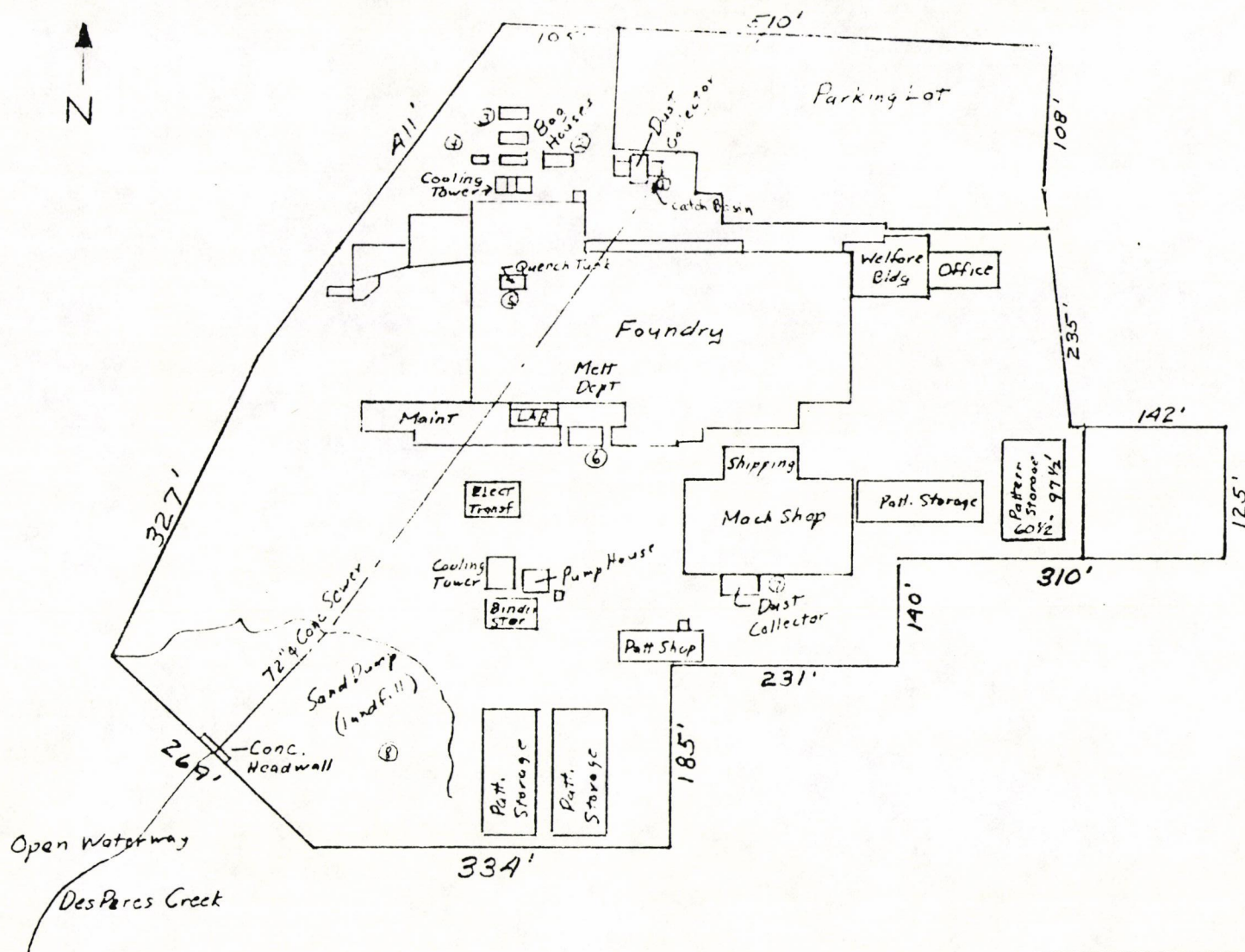
- Reactive
- Ignitable
- Corrosive
- X Toxic
- Infectious

Respectfully submitted,

William T. Fitzgerald
William T. Fitzgerald

WTF:eb

cc: *Charlie Burchard*
Ken Sullivan



See over

Abex Cast Products Group

St. Louis

Plot Plan

Scale 1/16" = 10'

10-14-80